

# Diagnose Starting Trouble

**H**as this happened to you?

Your M1074 tractor doesn't start right off. But, you keep cranking and eventually the engine coughs into life. It runs very rough for a while, then idles normally.

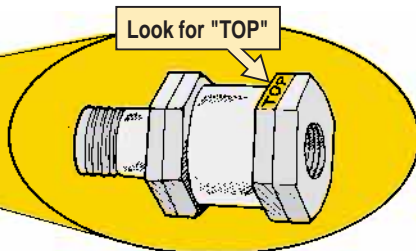
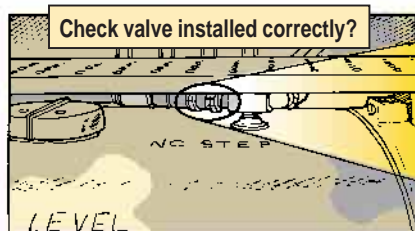
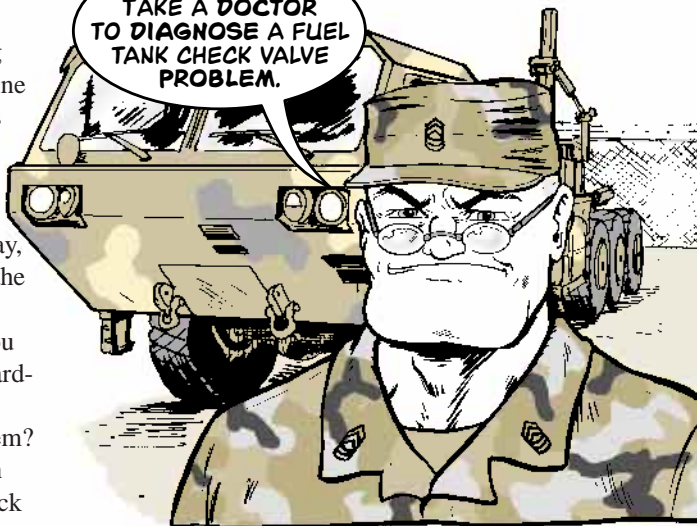
You have no more starting troubles that day, so you shut down and the truck sits overnight.

The next morning you go through the same hard-starting stuff.

So, what's the problem?

Have your repairman check the one-way check valve on top of the fuel tank. It's supposed to keep fuel from draining back into the tank after shutdown, so there's fuel available at startup. If the valve is installed wrong, or is defective or clogged, fuel drains back into the tank, making for hard starts next time or no starts at all.

IT DOESN'T  
TAKE A DOCTOR  
TO DIAGNOSE A FUEL  
TANK CHECK VALVE  
PROBLEM.



Look for the word "TOP" imprinted on a valve flat at the inlet end. If the word "TOP" is parallel to the top of the fuel tank, the valve's installed right. Otherwise, it must be reinstalled.

This info will be added to Para 4-6 of TM 9-2320-364-20-2 and to the troubleshooting procedures in the -20-1.

A clogged valve is a real possibility because fuel tank gunk doesn't get filtered out until after the fuel passes through the check valve.